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L16: Entry 2 of 3 File: DWPI Aug 9, 1991

DERWENT-ACC-NO: 1992-363632

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TITLE: Shape memory alloy with excellent thermal stability - prepd. from zinc@,

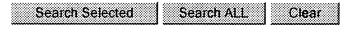
aluminium@, nickel@, silicon@, zirconium@, titanium@ and copper@

INVENTOR: KIM, Y; LEE, U

PATENT-ASSIGNEE:

ASSIGNEE CODE
KOREA ADV INST SCI & TECH KOAD

PRIORITY-DATA: 1988KR-0016224 (December 6, 1988)



PATENT-FAMILY:



APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

KR 9106016B

December 6, 1988

1988KR-0016224

INT-CL (IPC): C22C 9/04

ABSTRACTED-PUB-NO: KR 9106016B

BASIC-ABSTRACT:

A shape memory alloy is characterised by its compositions of 23-27 wt.% \overline{Zn} , 3-5 wt.% Al, 0.5-1.5 wt.% Ni, 0.1-0.3 wt.% Si, 0.1-0.3 wt.% Zr, 0.1-0.3 wt.% Ti, and the remainder of \overline{Cu} . It is hot-worked, annealed, and $\overline{quenched}$ to have shape memory properties. It is \overline{melted} by high frequency induction furnace in a reducing atmosphere; pouring it at 1100-1200 deg.C; $\overline{homogenisinq}$ at 750-850 deg.C for 2-5 days; hot rolling to a fixed thickness at 780-800 deg.C; at 750-850 deg.C for 5-50 min. and $\overline{quenchinq}$ into water. Its shape memory ability and mechanical properties are not changed by constant heating at 100 deg.C for 150 hr and its thermal stability is excellent at practical temperature 100 deg.C and below.

TITLE-TERMS: SHAPE MEMORY ALLOY THERMAL STABILISED PREPARATION ZINC@ ALUMINIUM@ NICKEL@ SILICON@ ZIRCONIUM@ TITANIUM@ COPPER@

DERWENT-CLASS: M26 M29